Title (en)

Differential signaling using a modulated common mode voltage

Title (de)

Differentielle Signalübertragung unter Verwendung einer modulierten Gleichtaktspannung

Title (fr)

Circuit de mode de courant utilisant une modulation de tension en mode commun

Publication

EP 1936856 A2 20080625 (EN)

Application

EP 07254314 A 20071031

Priority

US 64338806 A 20061220

Abstract (en)

In some embodiments, a chip includes transmitters to transmit differential signals on conductors; and current mode circuitry selectively to modulate a common mode voltage of the differential signals, so as to communicate data. In other embodiments, a system includes a first chip to transmit first and second differential signals on conductors, and a second chip. The second chip includes receivers to receive the first and second differential signals from the conductors and provide received signals representative thereof, and current mode circuitry selectively to modulate a common mode voltage of either the first or second differential signals to communicate data and wherein the first chip includes common mode detection circuitry to detect changes in the common mode voltage. Other embodiments are also described and claimed.

IPC 8 full level

H04L 5/20 (2006.01)

CPC (source: EP KR US)

H03K 19/00 (2013.01 - KR); **H04L 5/20** (2013.01 - EP US)

Citation (applicant)

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CN108781091A

Designated contracting state (EPC)

DE FR GB TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1936856 A2 20080625; **EP 1936856 A3 20120530**; **EP 1936856 B1 20150826**; CN 101207771 A 20080625; CN 101207771 B 20130410; EP 2947809 A1 20151125; EP 2947809 B1 20180103; EP 3306851 A1 20180411; EP 3306851 B1 20181212; EP 3454498 A1 20190313; EP 3454498 B1 20191023; HK 1253224 A1 20190614; HK 1253224 B 20200207; JP 2008160858 A 20080710; JP 5329080 B2 20131030; KR 101476417 B1 20141224; KR 20080058243 A 20080625; TW 200828929 A 20080701; TW I354476 B 20111211; US 2008169838 A1 20080717; US 2009323830 A1 20091231; US 7589559 B2 20090915; US 7872498 B2 20110118

DOCDB simple family (application)

EP 07254314 A 20071031; CN 200710300503 A 20071219; EP 15177026 A 20071031; EP 17200793 A 20071031; EP 18195703 A 20071031; HK 18112508 A 20180928; JP 2007341857 A 20071220; KR 20070134351 A 20071220; TW 96140127 A 20071025; US 55530009 A 20090908; US 64338806 A 20061220